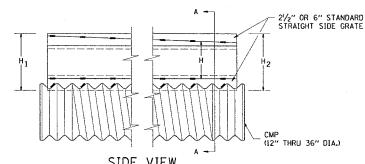
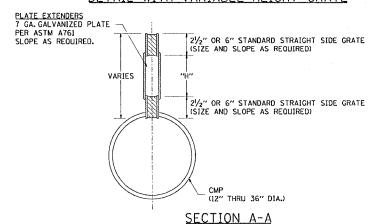
• 125 PSI TIRE PRESSURE



DETAIL WITH VARIABLE HEIGHT GRATE



GENERAL

Class SI Concrete shall be used throughout.

This specification covers Slottted Drain used for the removal of water as shown on the plans. The Slotted Drain shallbe Corrugated Pipe Culvert with Integral Slotted Drains.

The Slotted Drain shallbe Corrugated Pipe Culvert with Integral Slotted Drains.

Before placing the concrete adjacent to the pipe, the slot shallbe covered by either thin, flat metal sheeting or by a board notched to fit over the grate bors. This covering must fit closely in the slot to prevent entry of concrete into the pipe. Paving over the slotted drain will then be one continuous operation over the protected drain. The protection for the drain slot shall then be removed. The pipe shall drain into the side of the finit. The opening where the slot is removed shallbe covered to prevent concrete from entering the pipe.

then be removed. The pipe sholldrain into the side of the inlet. The opening where the slot is removed shollbe covered to prevent concrete from entering the pipe.

The Corrugated SteelPipe used in the Slotted Drain shollmeet the requirements of AASHTO M36/ASTM A760.

The CMP shollbe ALUMINIZED STEEL Type 2.

The diameter and gage shollbe as shown on the plans.

Steelgrating shallmeet the galvanizing requirements of AASHTO MIII.

This work willbe poid for at the contract unit price per foot for SLOTTED DRAIN 15" WITH 1-¾" SLOT, and shall include elbows, drilling holes in grating, supplying and placing AI bars, and concrete and grating for death specified on plans.

grating for depth specified on pians.
Use approved end cap to prevent concrete entry into the pipe during gutter construction on the upstream end of the pipe.

CONNECTIONS

The Corrugated SteeiPipe shallhave a minimum of two rerolled annular ends. The Slotted Drain bands shallbe modified HUGGER Bands to secure the pipe and prevent infiltration of the backfill.

When the Slotted Drain is banded together, the adjacent grates shall have a maximum 3" gap.

The grates shall be manufactured from ASTM A670, Grade 36 steel. The spacers and bearing bars (sides) shall be \% "moterial ±0.008".

The spacers shall be on 6" centers and welded on both sides to each bearing bar (sides) with four (4)1-\%" long \% "fillet welds on each side of the bearing bar.

The plate extender shall be 7 gage steel meeting ASTM A761.

The engineer may call for tensile strength tests on the grate is not in compliance with the above spacer specifications. If tensile strength tests are called for, minimum results for an in-place spacer pulled perpendicular to the bearing bar shall be:

T= 12,000 pounds for 2½" grate

T= 15,000 pounds for 6" grate

Contech Method *1 for variable height grates, or an approved equal, shall be used to achieve the slope shown on the plans.

The grate and plate extenders shallbe galvanized in accordance with ASTM A123 except with a 2 oz. galvanized coating.

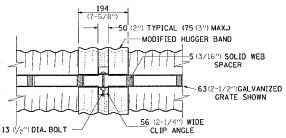
GRATE ATTACHED TO CSP

The grate shall be fillet weided with a minimum weld 1" long to the CSP on each side of the grate at every other corrugation.

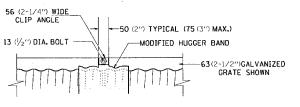
TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTHS

Vertical Bow= $\pm \frac{3}{8}$ " Horizontal Bow= $\pm \frac{5}{8}$ " Twist= $\pm \frac{1}{2}$ "

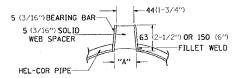
SLOTTED DRAIN PIPE



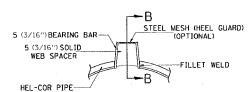
TOP VIEW



SIDE VIEW



SECTION A-A STANDARD DETAIL



SECTION A-A DETAIL WITH MESH

(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

STANDARD SIZES								GRATE		"A"
GAGE	DIAMETER OF PIPE							TYPE		
OF PIPE	300	375	450	600	750	900	i I	VERT	63(2-1/2")	44 (1-3/4")
PIPE	(12")	(15")	(18")	(24")	(30")	(36")		VERT	150 (6")	44 (1-3/4")
16	X	X	X	X	Х	Х		TRAP	63(2-1/2")	56 (2-1/4")
14	X	X	X	Х	Х	Х		TRAP	150 (6")	75 (3")
12	N.A.	N.A.	N.A.	N.A.	Х	Х		V	ERT = VERT	ICAL.
										IZOIDAL

SLOTTED DRAIN NOTES

- 1. CRATING IS AVAILABLE IN DEPTHS OF 63 (2-1/2)AND 150 (62)
- VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
- 3. FOR 150 (6"VERTICAL & TRAPIZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 100(4") TECHCO BAND ANGLE.
- 4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- 5. REFERENCE CONTECH BAND MANUAL DWG. NO. 1008466 FOR BAND DETAILS.
- 6. REFERENCE CONTECH SLOTTED DRAIN DWG. NO. 1002697
- 7. DIMENSIONS FOR H AND H AS REQUIRED.
- 8. H AND H MEASURED FROM TOP OF CRATE TO BOTTOM OF GRATE.



-125!(5")---

GAP PLATE (OPTIONAL)

TOTAL SHEE SHEETS NO.

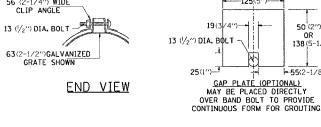
COUNTY

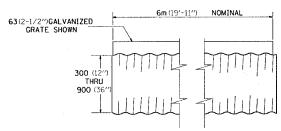
SECTION

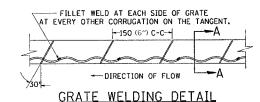
50 (2")

- 55(2-1/8")

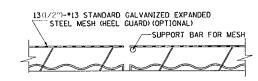
138 (5-1/2")



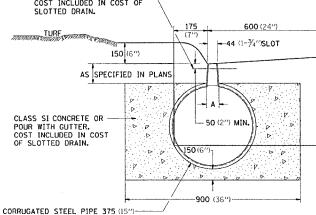




TYPICAL PIPE SECTION



SECTION B-B #4A. BARS AT 750 (30) CTS. COST INCLUDED IN COST OF SLOTTED DRAIN. 600 (24") -44 (1-3/4")SLOT





ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.